

**New York State Journal Of Medicine**

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FAILURE OF U.S.P. DISINTEGRATION TEST TO ASSESS PHYSIOLOGIC AVAILABILITY OF ENTERIC COATED TABLETS

LEVY, G; HOLLISTER, L E

[Journal Article; In English; United States]

Specialty Indexing*NLM Keywords:* * ASPIRIN; * BIOLOGICAL ASSAY; * CLINICAL RESEARCH; * DELAYED-ACTION PREPARATIONS

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**Acta Pharmaceutica Suecica**

Volume 8, Issue 5, November 1971, Pages 549-552

ISSN: 0001-6675

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Comparison between the U.S.P. 18 and the wet sieving disintegration tests

Sandell, E; Helmstein, I

[Journal Article; In English; Sweden]

CAS Registry Numbers: Capsules; Tablets; Tablets, Enteric-Coated

Citation Subset Indicators: Index Medicus

MeSH Terms: Capsules, * standards (ST); Chemistry, Pharmaceutical, standards (ST); Comparative Study; Methods; Solubility; Tablets, * standards (ST); Tablets, Enteric-Coated

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The Journal Of Pharmacy And Pharmacology
Volume 27, Issue 10 , October 1975, Pages 765-770
ISSN: 0022-3573

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Effects of hardness on the disintegration time and the dissolution rate of uncoated caffeine tablets

Kitazawa, S; Johno, I; Ito, Y; Teramura, S; Okado, J

Abstract

The effects of hardness on disintegration and dissolution characteristics of uncoated caffeine tablets made at eight different pressure levels were studied. The disintegration times were determined using the J.P. VIII procedure with disks and the dissolution rate measurements were performed with the U.S.P. XVIII procedure (U.S.P. method) and the J.P. VIII disintegration test apparatus (J.P. method). A good correlation between the hardness and the disintegration times was obtained. The dissolution rate constants were determined from the equation of Noyes & Whitney (1897) and a good correlation between the hardness and the dissolution rate constants was obtained. The hardness governed the dissolution over all the stages from tablet to the smallest particles after the breakage by disintegration. The dissolution rates of the J.P. method were greater than those of the U.S.P. method. [Journal Article; In English; England]

CAS Registry Numbers: Tablets; 58-08-2, Caffeine

Citation Subset Indicators: Index Medicus

MeSH Terms: * Caffeine; Chemistry, Pharmaceutical; Hardness; Kinetics; Particle Size; Solubility; Tablets; Time Factors

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